GASTEVA S.A. KREL'SHTMYN B.I.; LYAPIN, S.Ye.; SHIDLOVS'KA, M.M.;
KOPMESAK, G.D., redaktor; MONZHERAN V.F., tekhnichniy
redaktor

[Methods of teaching mathematics; a manual for teachers and students in pedagogical schools] Metodyka vykladannia matematyky; posibnyk dlia vchyteliv i studentiv pedagogichnykh instytutiv. Za zahal'noiu red. S.IE.Liapina. Pereklad s druhoho, vypravlenoho rosiis'koho vydannia Uchpedhizu, zatverdzhenoho Ministerstvom osvity RRFSR.

Kyiv, Derzh. uchbovo-pedagog. vyd-vo "Radians'ka shkola," 1956.

467 p. (MIRA 10:2)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514410015-0

LYAPIN, Sergey Yevgen'yevich; GASTEVA, Serafima Alekseyevna; KVASNIKOVA, Zinaida Yakovlevna; KREL SHTEYN, Boris II ich; CHAXHIREV, A.G., redaktor; LEONT'YEVA, L.A., tekhnicheskiy redaktor

[Methods of teaching mathematics; a manual for teachers of mathematics in classes 8-10 of the secondary schools] Metodika prepodavanila matematiki; posobie dlia uchitelei matematiki 8-10 klassov srednei shkoly. Leningrad, Gos.uchebno-pedagog. izd-vo Ministeratva prosveshcheniia RSFSR, Leningradskoe otd-nie. Pt.2. 1956. 653 p.

(MIRA 10:2)

(Mathematics-Study and teaching)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514410015-0

Temperature coefficient of thermonarcosis of smalls musicle.

B. P. Ushakov and S. V. Gasteva (C. R. Acad. Sci. U.R.S.S. 1953, 185, 1071—1074).—An investigation of the length time for which a no. of cold-blooded vertebrate and investigation time for which a recitable in appropriate asis solutions at at the loss of excitability. From the temp, coeff, it is concluded at at the loss of excitability at high temp, is due to denaturation of muscle proteins.

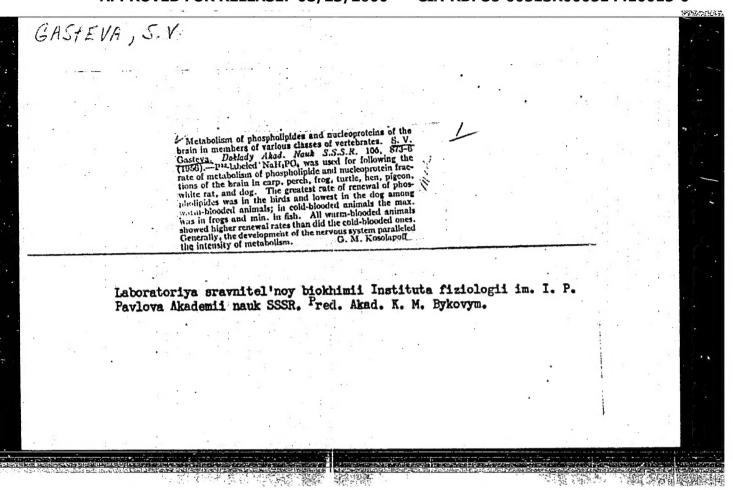
Zoological Institute of the Academy of Sciences USSR and Leningrad State University im. A. A. Zhdanov.

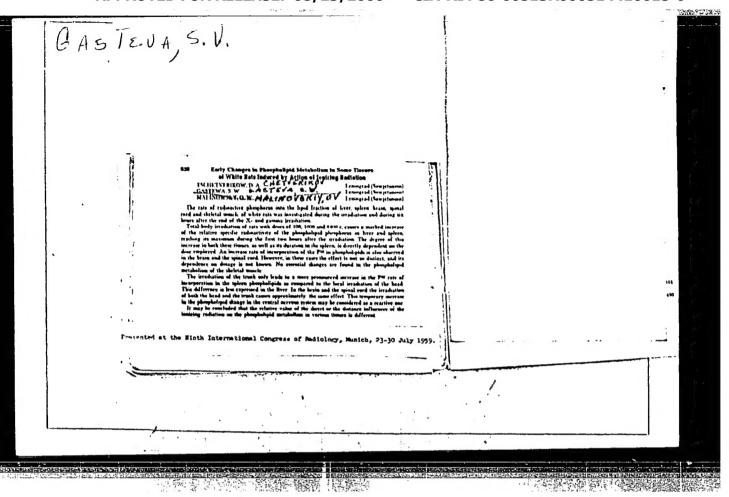
GASTIVA, S. V.

THE PART OF THE PARTY OF THE PA

GASTEWA, S. V.: "Metabolism of phospholipids, nucleoproteides, and phosphoproteins in the brain in representatives of various classes of vertebrates". Leningrad, 1955. Acad Sci USSR. Inst of Physiology imeni I. P. Pavlov. (Dissertations for the Degree of Candidate of Biological Sciences.)

So: Knizhnaya letonis' No. 9, 3 December 1955. Moscow.





CASTEVA. S.V.; MALINOVSKIY, O.V.; POMAZANSKAYA, L.F.; ULTBINA, I.N.;
CHETVERIKOVA, D.A.

Reflect of ionizing radiation on certain aspects of the phosphorus metabolism of the brain. Trudy Inst.fiziol. 8:533-542 '59.

(MIRA 13:5)

1. Laboratoriya radiobiologii (zaveduyushchiy - D.A. Chetverikov)
Instituta fiziologii im. I.P. Pavlova AN SSSR.

(PHOSPHORUS METABOLISM)

(X RAYS--PHYSIOLOGICAL EFFECT)

17(4)

AUTHORS:

Ushakov, B. P., Gasteva, S. V.

SOV/20-128-3-57/58

TITLE:

A Comparative Cytophysiological Analysis of the Responsiveness

of Muscular Fibers to the Action of Potassium Chloride

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 3, pp 638-640

(USSR)

ABSTRACT:

The appearance of a nonexcitability of muscular fibers under the action of fermentative toxins on muscles is determined by one single cause, namely by the interaction of the exchange inhibitor with the muscle proteins (ferments)(Ref 1). Although it really occurs in the final effect, the interaction of all stimulating substances investigated - in contrast with the response to

fermentative toxins and some other agents - is mostly complicated by the adaptation process (Ref 5). This reduces the toxic effect of the agent in the range of low intensities of stimulation. The

existing parabolic dependence of the n-order

 $(V = kC^n, Refs 1-3)$ is only disturbed in the range mentioned. In relatively high concentrations, there is always a range in which

this dependence remains untouched. This makes possible a

Card 1/3

separate quantitative estimation of the responsiveness of muscle

A Comparative Cytophysiological Analysis of the SOV/20-128-3-57/58 Responsiveness of Muscular Fibers to the Action of Potassium Chloride

proteins and of the adaptation process mentioned (Ref 5). The degree of deviation quantitatively characterizes the adaptation process. The experiments were carried out on isolated muscles of 12 animal species: medusae, worms, leeches, holothuriae, snails, crabs, frogs, lizards, and white rats. The authors thank I. P. Suzdal'skaya and A. V. Zhirmunskiy for carrying out some experiments. The point of time of the appearance of nonresponsiveness of the isolated muscle to induction current was determined in KCl-solutions of different concentration. Figure 1 shows the logarithmic diagrams of the dependence of the appearance of nonresponsiveness on the KCl-concentration. Already superficial observation shows that the muscle proteins of vertebrates show a responsiveness to low KCl-concentrations which is by several dozens higher, with a lower threshold, than those of invertebrates. In figure 1, the respective curves are arranged in a series according to the decrease in the constant n. Due to a higher value of this constant in lower invertebrates, their responsiveness rises much faster than that of vertebrates. Therefore, the reverse relation often applies to the range of high KCl-concentrations: the muscle proteins of lower animals

Card 2/3

A Comparative Cytophysiological Analysis of the SOV/20-128-3-57/58 Responsiveness of Muscular Fibers to the Action of Potassium Chloride

are more responsive than those of crustaceae and vertebrates. Hence it appears that, in the course of phylogenesis, the responsiveness of the protein substrata of the muscles increases in the range of low KCl-concentrations while it decreases in the range of high concentrations. Smooth muscles have a higher value of the constant n than transversely striated muscles (Fig 1) (in agreement with Ref 7). No adaptation could be found in 2 species of maritime worms. In other invertebrates, it is distinctly to be seen, though not so distinctly as in vertebrates. Thus, the cells acquired, in the course of evolution, an active regulating capacity with respect to the amount of response. The appearance of this function in the cellular plane is of principal importance since it distinguishes the response of the cell as a whole from the responsiveness of its protein complex. There are 1 figure and 7 references, 5 of which are Soviet.

ASSOCIATION:

Leningradskiy gosudarstvennyy universitet im. A. A. Zhdanova

(Leningrad State University imeni A. A. Zhdanov)

PRESENTED:

June 1, 1959, by Ye. N. Pavlovskiy, Academician

SUBMITTED:

May 25, 1959

Card 3/3

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514410015-0

GASTEVA, S. V., CHETYERIKOV, D. A., (USGR)

"The Effect of Whole-Body X-Irradiation on the Rate of 32P Incorporation in the Phos holipid Fraction of Certain Rat Tissues."

Report presented at the 5th Int'l. Biochemistry Congress, Moscow, 10-16 Aug 1961.

31.830

5/020/62/142/005/022/022 B144/B138

27.1220

AUTHORS:

Gasteva, S. V., and Chetverikov, D A

TITLE:

Intensity of phospholipid metabolism (PLM) in the central nervous system (CNS) of rats in acute radiation disease

Card 1/3

PERIODICAL: Akademiya nauk SSSR, Doklady, v. 142, no. 5, 1962, 1180 -

TEXT: PLM was studied in brain, spinal chord, liver, and spleen of rats after 750 r whole-body x-irradiation with a PyM-11 (RUM-11) apparatus. This dose caused $\sim 70\%$ of deaths within 4 days. PLM was judged from the rate of Na2HP3204 incorporation into PL fractions (introduction 0.5 $\mu cu/1$ g of weight). The rats were decapitated 120 min after P^{32} application; irradiation time was 100 myn. The rats were in nine groups (112 rats) with P^{32} application 10 min before, and 2, 4, 6, 12, 24, 48. 72, and 96 hrs after, irradiation, with a nonirradiated control group of 57 rats. The specific radioactivity (s.r.) of anorganic P (AP), the s r. of the total PL fraction (imp/min*µg P), and the relative s.r (r.s.ta) of

S/020/62/142/005/022/022 B144/B138

Intensity of phospholipid metabolism ...

PL phosphorus $(\frac{s \cdot r \cdot PL}{s \cdot r \cdot AP} \cdot 100)$ were calculated, and from this the rate of P32 incorporation into this fraction and the PLM intensity could be ascertained. Fig. 1 shows the PL r.s.r. in different tissues. Previous investigations had led the authors to assume a remote mechanism controlling PLM intensity alone (CNS) or in conjunction with direct effects (spleen, liver) in the first stage of radiation disease. The initial temporary PLM increase observed in all the tissues studied is apparently an unspecific metabolic reaction which is followed by widely differing specific reactions, depending on morphological and physiological features No direct noxious effect was found on the biochemical systems responsible for PL synthesis in CNS, liver, and spleen. There are : figure and 15 references: 8 Soviet and 7 non-Soviet. The four most recent references to English-language publications read as follows: R. M. C Dawson, D. Richter, Proc. Roy. Soc., London. 137, 252 (1950); F G. Sherman, A. B. Almeida, Adv. in Radiobiol., Stockholm, 49 (1957); W. E. Cornatzer, J. P. Davison et al., Radiation Res . 1, 546 (1954); H. Harrington, P. S. Lavik, J. Cell. Comp. Physicl . 46, no 4 503 (1955).

Card 2/3

S/020/62/142/005/022/022 B144/B138 Intensity of phospholipid metabolism ...

ASSOCIATION: Institut fiziologii im. I. P. Pavlova Akademii nauk SSSR

(Institute of Physiology imeni I. P. Pavlov of the Academy

of Sciences USSR)

PRESENTED: September 4, 1961, by V. N. Chernigovskiy, Academician

SUBMITTED: August 29, 1961

Fig. 1. Change in PL r.s.r. in corebral hemispheres (1), spinal chord (2), liver (3), and spleen (4) of rats in the course of radiation disease. The statistical deviation of the points plotted from the control average (= 100 %) is significant (P < 0.05). Legend: (a) hours.

Fig. 1

Card 3/3

GASTEUN, S.C.

The Permeability of the Blood-Brain Barrier and the Intensity of Phospholic's in the Central Nervous System of Rats During Acute Radiation Sickness

D. A. Chetrerfor and S. V. Gastern

The purpose of this work was the comparison of the changes of blood-brain barrier permeability for the orthophosphate with those of phosphate radiation sickness.

acute ratinates steness.

Adult male rate (Wistar strain) received 750 r total-body X-irradiation. The penetration rate of orthophosphate from the blood plasma into brain and spinal cord and the incorporation rate of titrue inorganic phesphate into the phospholipid fraction was studied by means of Na₂H³PO₂ injected subcutaneously to the animate 2 h r before decapitation. Both aspects of phospherus metabolism were studied in the course of uradiation and 2, 4, 6, 12, 43,

decapitation. Both aspects of phosphorus metabolism were studied in the course of irradiation and 2, 4, 6, 12, 43, 72 and 96 hr after.

Both in brain and spinal cord during the first 2 hr after irradiation, there was some increase of the "P penetration rate from blood into the listing and of the phospholipid turnover rate. Apparently, this transitory reaction is non-specific and it conditioned by the influence of the general regulatory systems of the organism.

In the later part of the radiation disease, the rate of "P" penetration into the central nervous system discussed decreases in comparison with control values. The intensity of phospholipid metabulism also decrease, but remains near the control level. A marked decrease of both processes studied is obserted at the terminal stage of acute radiation sickness (72-96 hr after Irradiation).

The similarity of the patterns of changes of blood-barrier permeability for orthophosphate and of phospholipid turnover intensity revealed during the course of radiation sickness is probably not accalental, but indicates the existence of some close linkage between these two supects of the nervous lissue photphorus metabolism.

Radiobiological Laboratory, J. P. Parlar Institute of Physiology, Academy of Sciences, Leningrad, USSR

report presented at the 2nd Intl. Congress of Radiation Research, Enrregnte/Yorkshire, Gt. Brit. 5-11 Aug 1962

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GASTEVA, S.V.; CHETVERIKOV, D.A.

Intensity of phospholipid metabolism in the central nervous system of rats during acute radiation sickness. Dokl. AN SSSR 142 no.5:1180-1183 F '62. (MIRA 15:2)

1. Institut fiziologii im. I.P.Pavlova AN SSSR. Predstavleno akademikom V.N.Chernigovskim.

(PHOSPHATIDES) (NERVOUS SYSTEM) (RADIATION SICKNESS)

ACCESSION NR: VAT3013148

8/3018/63/000/000/0597/0606

AUTHOR: Gasteva, S. V.; Chotverikov, D. A.

TITLE: Phosphate group phospholipide metabolism in brains of rats during acute radiation sickness

SOURCE: Tret'ya Vaesoyuznaya konferentsiya po biokhimii nervnoy sistemy*. Sbornik dokladov. Yerevan, 1963, 597-606

TOPIC TAGS: phosphate group phospholipide metabolism, brain metabolism, phospholipide metabolism, CNS functional level, acute radiation sickness, X-irradiation, radioactive phosphorus, hematoencephalitic barrier permeability, lipid fraction, inorganic phosphate fraction, specific radioactivity, brain large hemispheres, spinal cord

ABSTRACT: Experimental white male rats were X-irradiated with a single total 750 r dose (RUM-11 unit, 176 kv, 20 ma, focal length 91 cm). Radioactive phosphorus (P³²) in the form of Na₂HP³²O₁ was injected subcutaneously (5 mc/kg) into animals to determine phosphate group phospholipide metabolism intensity and to determine change in hematoencephalitic barrier permeability for inorganic Cord 1/3

ACCESSION NR: AT3013148

phosphate in the blood plasma passing into brain tissue. Animals were decapitated 2 hrs after P32 injection and blood and brain samples were taken. Brain large homispheres and spinal cord were carefully removed and lipids extracted by Folch's chloroformmothanol mothod. Inorganic phosphate fractions were procipitated by Delori's method. Specific radioactivity of lipid and inorganic phosphate fractions and blood plasma served as indices of phospholipide motabolism intensity and hematoencephalitic barrier permeability. Experimental data of this study were compared with literature data on CNS changes in irradiated animals. A striking correlation was found between CNS functional level and phospholipide' motabolism. With increase in CNS functional level in the first hours after irradiation, the activity of certain metabolic systems in the brain, including phospholipide motabolism, become more intense. Homatooncophalitic barrier permeability increases for substances nocessary for more intense metabolism and this is reflected by the change in inorganic phosphate specific radioactivity of the brain. Despite a close correlation there is not sufficient evidence to claim that phospholipide metabolism is more directly related to CNS vital functions than other types. The problem of which metabolic processes are of prime chemical importance in brain activity and Card 2/3

ACCESSION NR: AT3013148

which processes play supplementary roles is a key question of functional biochemistry and requires further study. Orig. art. has: 2 figures.

ASSOCIATION: Institut fiziologii im. I. P. Pavlova, AN SSSR, Loningrad (Physiology Institute, AN SSSR)

SUBMITTED: 00

DATE ACQ: 280ct63

ENCL: 00

SUB CODE: AM

NO REF SOV: 033

OTHER: 007

Card 3/3

L 14346-63 EWT(1)/EWT(m)/ES(b)/BDS AFFTC/ASD AR

ACCESSION NR: AP3003866

s/0020/63/151/003/0718/0721

AUTHORS: Chetverikov, E. A.; Gasteva, S. V.

55

TITLE: Permeability of the blood-brain barrier to inorganic phosphate in acute radiation sickness 19

SOURCE: AN SSSR. Doklady*, v. 151, no. 3, 1963, 718-721

TOPIC TAGS: permeability, blood-brain barrier, inorganic phosphate, radiation sickness, phospholipid metabolism

ABSTRACT: Having previously studied the rate of incorporation of radioactive phosphate into brain phospholipids, the authors wished to study the effect of irradiation on the rate of synthesis. Permeability was assessed in terms of the rate of uptake of labelled inorganic phosphate from the blood plasma by the tissue of the cerebral hemispheres, using relative specific radioactivity of cerebral and cerebrospinal tissue (ratio of specific brain to plasma radioactivity) as the measure. White rats were subjected to whole-body irradiation in a dosage which produces acute radiation sickness and is fatal to 70% of the animals in 4 days (750 r in 10 minutes). Radioactive phosphate (Na sub 2 HP sup 32 0 sub 4) was injected s.c. in the amount of 0.5 micrograms Cu/g, and 2 hours afterwards the animals were decapitated and blood samples collected. Determinations were made Cord 1/32

L 14346-63 ACCESSION NR: AP3003866

immediately after irradiation and 2-96 hours later. Relative radioactivity of the plasma was appreciably decreased immediately after irradiation and in the first 6 hours, then rose sharply and was considerably above the normal level at 24, 72, and 96 hours. The findings in cerebrospinal and hemispheric tissue were very similar: no change for the first 6 hours after irradiation, and a slight reduction beginning at 12 hours. Changes in the relative specific radioactivity of hemispheric and cerebrospinal radioactivity were triphasic: there was a distinct increase in permeability in the first 2 hours, a levelling off at values close to those in controls in the first 2 days, and finally, on the 3rd to 4th day a statistically significant decrease. The initial decrease in the specific radioactivity of plasma inorganic phosphate is due to its dilution with less active tissue phosphate, the high level in the terminal stage of radiation sickness to the decreased permeability of the blood-brain barrier. The latter phenomenon is explained by the increased capacity of the brain cell cytoplasm to absorb inorganic phosphate resulting from the irradiation-induced lowering of the rate of phospholipid metabolism in the brain tissue. Thus the rate of metabolic processes in the brain and the permeability of the blood_brain barrier are intimately related. Orig. art. has: 2 figures.

cord 2/32 Det of Physiology of the academy of Sciences

CHETVERIKOV, D.A.; GASTEVA, Svjetlana V.; IVANOV, K.P.; VACEK, A.; POSPISIL, M.

Mechanism of raised resistance of rats to hypoxia in acute radiation injury. Folia biol. (Praha) 10 no.5:386-391 164.

1. Pavlov Institut of Physiology, Academy of Sciences of the U.S.S.R., Leningrad, and Institute of Biophysics, Czechoslovak Academy of Sciences, Brno.

 $\frac{\text{L }15070-65}{\text{Pb-4/Pa-4}} = \frac{\text{EVG(j)/EWG(r)/EWT(1)/FS(v)-3/EWG(v)/EWG(a)/EWG(c)}}{\text{AEDC(a)/ASD(a)-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{EVG(j)/EWG(r)/EWG(c)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{EVG(j)/EWG(r)/EWG(c)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{EVG(j)/EWG(r)/EWG(c)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{EVG(j)/EWG(r)/EWG(c)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{EVG(j)/EWG(r)/EWG(c)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{EVG(j)/EWG(c)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{EVG(j)/EWG(c)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{Pb-4/Pa-5/AMD/AFMDC/AFMDC/AFTC(b)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}}{\text{Pb-4/Pa-5/AMD/AFMDC/AFTC(b)}} = \frac{\text{Pb-4/Pa-5/AMD/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFMDC/AFM$

ACCESSION NR: AP4049493

S/0020/64/159/002/0469/0472

AUTHOR: Chetverikov, D. A.; Gasteva, S. V.

TITLE: The metabolism of phosphate groups in phospholipids of the brain and liver of rats during hypoxia and posthypoxia

SOURCE: AN SSSR. Doklady*, v. 159, no. 2, 1964, 469-472

TOPIC TAGS: hypoxia, pressure chamber, phosphate metabolism, phospholipid, brain, liver

ABSTRACT: In this study, three goups of rats were placed in pressure chambers with the atmospheric pressure lowered as follows: group 1 - 240 mm Hg; group 2 - 180 mm Hg; group 3 - 240 mm Hg (chamber heated to reduce hypothermia). Periodically the animals received injections containing P^{32} , the inclusion rate of which indicated that in group 1, and in group 2 particularly, the metabolism of phospholipids was depressed. Group 3 showed a 50% mortality rate, with the P^{32} inclusion rates not deviating significantly from those of a control group. In all instances, the metabolism of phospholipids was inhibited more

Card 1/2

ACCESSION NR: AP4049493

acutely in the brain than in the liver. It is concluded that the inhibition of phospholipid metabolism during hypoxia was to a certain

hibition of phospholipid metabolism during hypoxia was to a certain extent determined by a concomitant onset of hypothermia. Orig. art. has: 1 table.

ASSOCIATION: Institut fiziologii imeni I. P. Pavlova Akademii nauk SSSR (Institute of Physiology of the Academy of Sciences, SSSR)

SUBMITTED: 07Apr64

ENCL: 00

SUB CODE: PH, LS

NO REF SOV: 005

L 16070-65

OTHER: 009

ATD PRESS: 3145

Card 2/2

L 14293-66 EWT(m)/EPF(n)-2 DIAAP GG/RD

ACC NR: AT6003877

SOURCE CODE: UR/2865/65/004/000/0437/0444

AUTHOR: Gasteva, S. V.; Ivanov, K. P.; Chetverikov, D. A.

ORG: none

19,44,55 TITIE: Resistance of rats to severe oxygen deficiency during radiation sickness

SOURCE: AN SSSR. Otdeleniye biologicheskikh nauk. Problemy kosmicheskoy biologii, v. 4, 1965, 437-444

TOPIC TAGS: radiation sickness, hypoxia, rat, biologic metabolism, test chamber, ionizing radiation, x ray irradiation, tissue physiology

ABSTRACT: Experiments were conducted to determine the effect of ionizing radiation on oxidizing systems in living tissues by showing whether the resistance of rats to acute hypoxia changes in the course of severe radiation sickness. Male white rats weighing 200-250 g were subjected to a dose of x-rays (750 r) sufficient to cause mass death 80 hours after irradiation. Immediately after irradiation, and then at intervals of 3, 6, 12, 24, 48, 72, and 96 hours, groups of experimental and control rats were placed in an altitude chamber and subjected to rarefied atmosphere Card 1/3

L 14293-66

ACC NR: AT6003877

(140 mm Hg). The resistance of irradiated rats to hypoxia, evident 6 hours after irradiation, was most pronounced after 72 hours. In order to determine whether a decrease in the intensity of metabolic processes is the chief cause of resistance to hypoxia, the rectal temperature and oxygen consumption of irradiated rats were measured in the designated time intervals. The absence of essential changes in these indices showed that the decrease in the intensity of metabolic processes in irradiated rats is not the sole cause of increased resistance to hypoxia.

Another series of experiments tested oxygen consumption of animals directly under hypoxic conditions. Gas-exchange studies under normal atmospheric and hypoxic conditions were compared, and it was concluded that the mechanism of increased resistance to hypoxia is different at different stages of radiation sickness. Further research is needed to determine the exact causes of increased resistance at different times, which may include hypothermia, disturbances of normal vital activity such as anemia or circulatory disruption, and disturbances in temperature regulation. The observed resistance of rats to acute oxygen deficiency (from 6 hours after irradiation to the terminal stage of acute radiation sickness),

Card 2/3

"APPROVED FOR RELEASE: 08/23/2000

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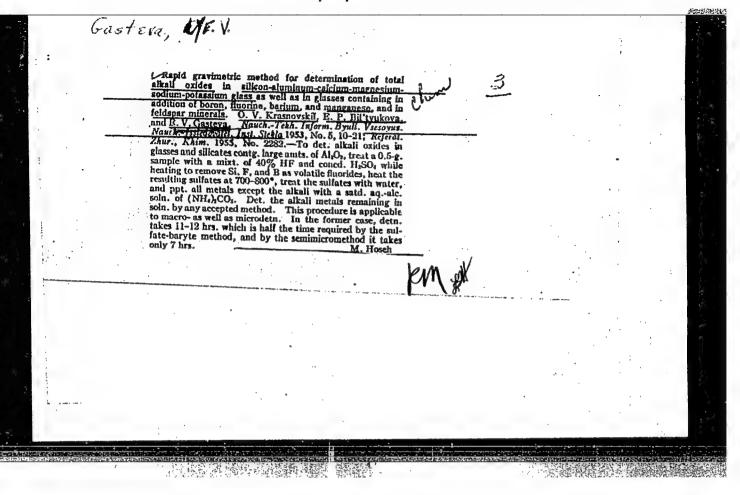
L 14293-66 ACC NR: A	16003877			• • • •			
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processe	s, indicate that cidizing systems	ionizing radiation	on. in the dose	used, does not			
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SUB CODE	06 / SUBM DA	TE: none / OF	RIC REF: 008	OTH REF: 008			
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Card 3/3							

trivial [-] AP5028918 SOURCE CODE: AUTHOR: UR/0020/65/165/003/0714/0716 Gasteva, S. V.; Chetverikov, D. A. ORG: Institute of Physiology im. I. P. Pavlov, Academy of Sciences SSSR (Institut TITLE: Reasons for the decrease in metabolic intensity of brain phospholipids during oxygen starvation of the organism SOURCE: AN SSSR. Doklady, v. 165, no. 3, 1965, 714-716 TOPIC TAGS: animal physiology, biologic metabolism, brain, phospholipid, rat ABSTRACT: Previous experiments had suggested that the suppression of phospholipid synthesis observed in brain tissue during hypoxia is less the result of oxygen starvation of the organism than of the hypothermia which accompanies this state. To verify this hypothesis, phospholipid synthesis in animals during intensified hypothermia and "normal" hypoxia was compared. Male white rats were immersed in water (8-10C), injected with radioactive phosphate (dose 0.5 µ Cu/g), and then placed, while in restraint cages, in a pressure chamber at 240 mm Hg for 110 min. The relative specific radioactivity (RSR) of the phosphorus in the phospholipids was used as an index of the intensity of phospholipid metabolism. Experimental results showed that in artificially cooled animals (whose rectal temperature was 13.3C below normal), the RSR was 35.5% of the control value. For animals not subjected to additional cooling (rectal temperature 5.2C below normal), the RSR of brain phospholipids was 69% of the

synt to h nent	hermia of brain tissue inhibits the activity of enzyme systems involved in cellular ynthesis processes. Hypothermia accompanying oxygen starvation of the organism seem o have a protective, adaptive character. When the normal body temperature of experiental animals was artificially maintained during hypoxia, a higher mortality rate as observed. Orig. art. has: 2 figures.										seems peri- e			
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"APPROVED FOR RELEASE: 08/23/2000

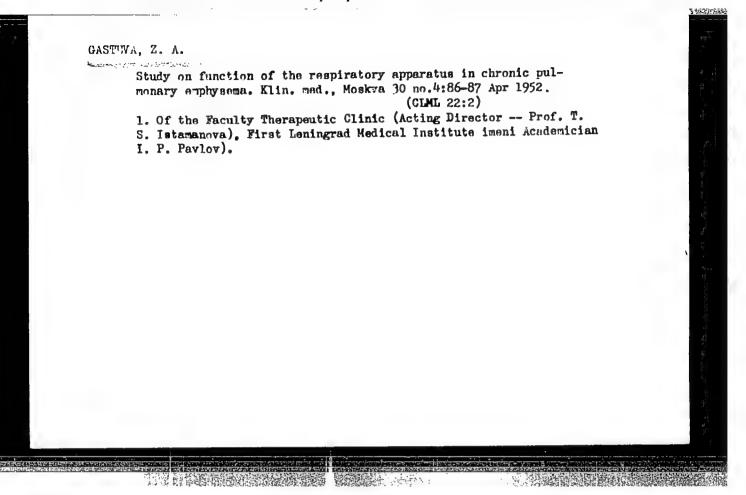
CIA-RDP86-00513R000514410015-0



DEMBO, A.G.; GASTEVA, Z.A.

New method of determination of alveolar air. Ter. arkh., Moskva 24 no.1:92-95 Jan-Feb 52. (CIML 21:4)

1. Of the Faculty Therapsutic Clinic (Acting Director---Prof. T.S. Istamanova), First Leningrad Medical Institute imeni Academician I.P. Paylov.



GASTEVA, Z.A.

Characteristics of hemopolesis in patients with congenital cardiac defects of the blue type. Terap.arkh. 33 no.1:79-84 161. (MIRA 14:3)

1. Iz fakul'tetskoy terapevticheskoy kliniki (zav. kafedroy prof. T.S. Istamanova) I Leningradskogo meditsinskogo instituta imeni I.P. Pavlova.

(HEART—ABNORMITIES AND DEFORMITIES) (HEMOPOIETIC SYSTEM)

GASTEVA, Zinaida Alekseyevna; KLIMOV, S.P., red.; LEPEDEVA, G.T., tekhn. red.

[Pain in the heart] O boliakh v serdtse. Leningrad, Medgiz, 1963. 15 p. (MIRA 16:7) (HEART--DISEASES) (PAIN)

GASTEVA, Zinaida Alekseyevna; NESHEL', Yelizaveta Vasil'yevna
[deceased]; USPRISKAYA, Veronika Gennad'yevna; LUR'TE,
N.A., rod.

[Pneumofibrosis and pulmonary emphysema] Pnevmofibrozy i
omfizema legkikh. Leningrad, Meditsina, 1965. 206 p.
(MIRA 18:9)

"APPROVED FOR RELEASE: 08/23/2000 CIA-

CIA-RDP86-00513R000514410015-0

GASTILA, L. I., Engr

PA167T77

USSR/Metals - Welding

Sep 50

"Resistance of the Plate in Spot Welding," L. I. Gastila, Engr, Kaunas State U

"Avtogen Delo" No 9, pp 17-18

Introduces formula for calculating ohmic resistance of a plate. Formula gives relation between resistance and basic parameters, such as specific resistance of metal of plate, its thickness, and area through which a welding current flows. This permits graphic or analytical determination of coefficient values necessary to calculate resistance.

167177

GHERNAR A.L.

Translation from: Referativnyy Zhurnal, Elektrotekhnika, 1957, Nr 2, p. 164 (USSR) 112-2-3645

AUTHOR:

Gastila, L.

TITLE:

Plate Resistance (Laksto omine varza; aktivnoye soprotivleniye plastinki) [In Lithuanian, resume in Russian]

PERIODICAL: Kauno politechn. inst. darbai, Tr. Kaunassk. politekhn. in-ta, 1955, Nr 3, pp. 127-135

ABSTRACT:

An analytical calculation for determining plate resistance in spot welding is given. The inadequacy of the formula proposed by Helman, which takes into account the effect of the current field in the plate is pointed out.

A simplified method of plotting electric fields is proposed which will make it possible to derive the formula expressing the relation between the thickness of the plate and

the diameter of the electrode with the least error: $R = K P \delta / d^2$, where P is the resistivity of the metal

Card 1/2

plate; & is the thickness of the plate; d is the diameter of the electrode; K is a coefficient which is a function

Plate Resistance (Cont.)

of the ratio d/d . The values for K are obtained from the graphs which are given, or analytically; K = 1.274 — 0.96/1.54

Card 2/2

G.K.Ts.

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514410015-0

GASTILA, L.I., red.

[Mechanization of drainage work]Voprosy mekhanizatsii i meliorativnykh rabot; sbornik statei. Vil'nius, Gos. izd-vo

polit. i nauchn. lit-ry, 1956. 130 p. (Drainage)

(MIRA 16:1)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514410015-0

L 52118-65

ACCESSION NR: AP5015366

UR/0286/65/000/009/0115/0115

621.9.018

AUTHOR: Gastila, L. I.

TITLE: A method for making small diameter channels with complex configuration in

cast and stamped parts. Class 49, No. 170830

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 9, 1965, 115

TOPIC TAGS: machine tool industry, metal forming

ABSTRACT: This Author's Certificate introduces a method for machining materials using the pressure produced by evaporating current-carrying elements, e.g. in the form of a wire bent to conform in shape to a predetermined profile. The elements are evaporated by a pulse charge for making small diameter channels with complex configuration in cast and stamped parts.

ASSOCIATION: none

SUBMITTED: 23Dec63

ENCL: 00

SUB CODE: IE

KO REF SOV: 000

THER: 000

Card 1/1 The

GASTILA, L.

Lithuanian racing tracks are waiting for racers. Za rul. 19 no. 2:16 F '61. (MIRA 14:4)

1. Zaveduyushchiy kafedroy avtomobiley Kaunasskogo Politekhnicheskogo instituta.

(Lithuania—Automobile racing)

GASTILA, L., kand. tekhn. nauk, dotsent

Training specialists. Avt. transp. 41 no.12:41-42 D *63.

(MIRA 17:1)

1. Zaveduyushchiy kafedroy avtomobiley Kaunasskogo politekhnicheskogo instituta (for Gastila). 2. Nachal'nik

Tyumenskogo avtoupravleniya (for Avtokratov).

GASTILOVICH, A.

Iz opyta nastupatel'nykh deistvii na gornom teatre. (Voennaia mysl', 1946, no. 6, p. 16-28, maps)
Title tro: Experience in offensive operations in mountain

terrain.

UL. V82 1946

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

SOKOLOVSKIY, V.D., Marshal Sovetskogo Soyuza; Blayev, A.I., polkovnik;

GASTILOVICH, A.I., doktor voyennykh nauk, prof. general-polkovnik;

DENISENKO, V.K., polkovnik; ZAV'YALOV, I.G., general-mayor;

KOLECHITSKIY, V.V., general-mayor; LARIONOV, V.V., kand. voyennykh

nauk, polkovnik; MRKOV, G.M., polkovnik; PAROT'KIN, I.V., kand.

voyennykh nauk, polkovnik; PKOKHOROV, A.A., general-mayor; POPOV, A.S.,

polkovnik; SAL'NIKOV, K.I., polkovnik; SHIMANSKIY, A.N., polkovnik;

CHEREDNICHENKO, M.I., general-mayor; SHCHEGOLEV, A.I., polkovnik;

MOROZOV, B.N., polkovnik, red.; KONOVALOVA, Ye.K., tekhn. red.

[Military strategy] Voennaia strategiia. Moskva, Voenizdat, 1962.

457 p. (Strategy)

"APPROVED FOR RELEASE: 08/23/2000 CIA

CIA-RDP86-00513R000514410015-0

SOKOLOVSKIY, V.D., Marshal Sovetskogo Soyuza; BELYAYEV, A.I., polkowik; GASTILOVICH, A.I., doktor voyennykh nauk, prof. general-polkovnik; DENISENKO, V.K., polkovnik; ZAV'YALOV, I.G., general-mayor; KOLECHITSKIY, V.V., general-mayor; LARIONOV, V.V., kand. voyennykh nauk polkovnik; NYRKOV, G.M., polkovnik; PAROT'KIN, I.V., kand. voyennykh nauk polkovnik; PROKHOROV, A.A., general-mayor; POPOV, A.S., polkovnik; SAL'NIKOV, K.I., polkovnik; SHIMANSKIY, A.N., polkovnik; CHEREDNICHENKO, M.I., general-mayor; SHCHEGOLEV, A.I., polkovnik; MOROZOV, B.N., polkovnik, red.; KONOVALOVA, Ye.K., tekhn. red.

[Military strategy] Voennaia strategiia; Izd.2., ispr. i dop. Moskva, Voenizdat, 1963. 503 p. (MIRA 16:10) (Strategy)

GASTILOVICH, Ye.A.; SHIGORIN, D.N.; GRACHEVA, Ye.P.; CHEKULAYEVA, I.A.; SHOSTAKOVSKIY, M.F.

Investigating the nature of the complexes and derivatives of acetylene by the method of infrared absorption spectra. Opt.i spektr. 10 no.5:595-599 My '61. (MIRA 14:8)

(Acetylene—Spectra)

"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514410015-0

GASTILOVICH, Ye.A.; SHIGGRIN, I.N.; KOMAROV, N.V.

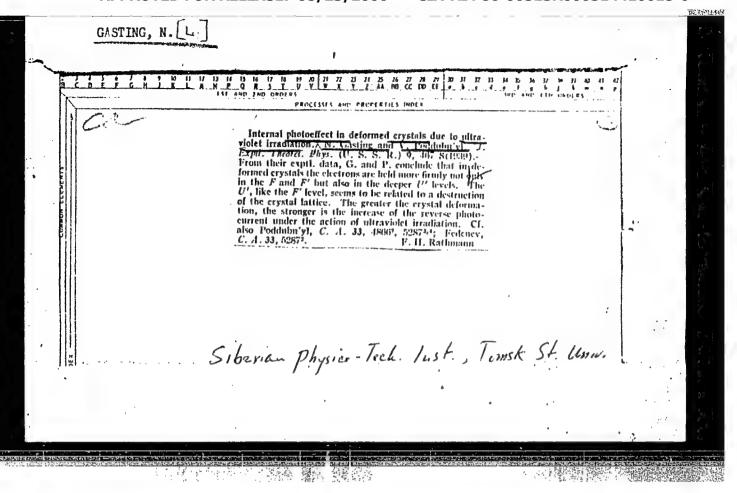
Use of the method of infrared absorption spectra in studying acetylene derivatives containing elements of group IV of Mondeleev's periodic law. Opt. i spektr. 16 no.1:46-51 Ja '64. (MIRA 17:3)

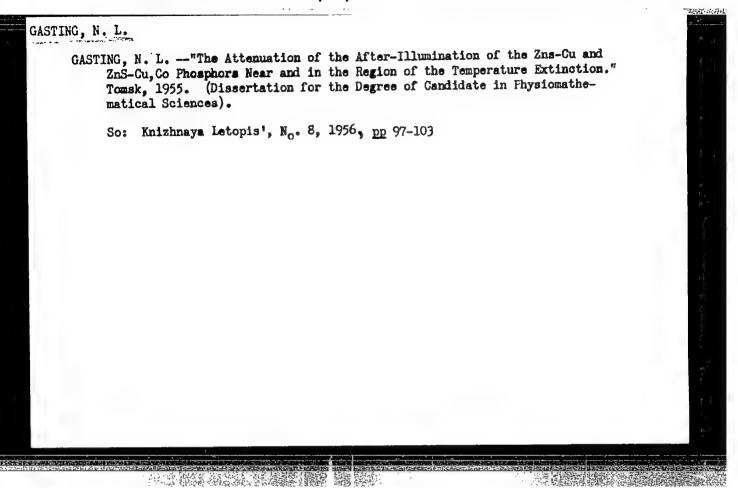
GASTILOVICH, Ye.A.; SHIGORIN, D.N.; KOMAROV, N.V.; YAROSH, O.G.

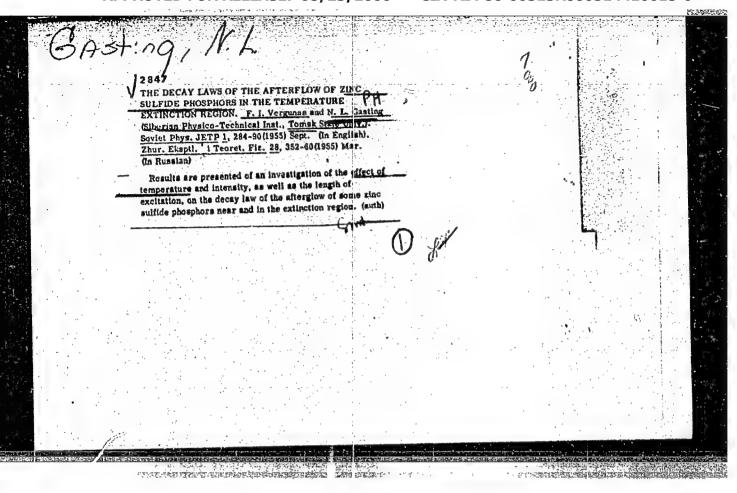
Electro-optical parameters of the C.-Ge, C.-H, C.-Si
bonds of certain acetylene derivatives consisting of one or
several acetylene groups. Opt. i spektr. 19 no.2:287-289 Ag '65.

(MIRA 18:8)

I. 33155-66 EWT(m)/EMP(i) RM UR/0058/65/000/011/D014/D014 SOURCE CODE: ACC NRI AR6016177 AUTHOR: Shigorin, D. N.; Gastilovich, Ye. A.; Komarov, N. V. TITIE: Investigation of compounds of the group (CH3)3-X-C=CH, where X = C, Si, Sn, and Pb in the region of valence oscillations of the groups C-C and C-H SOURCE: Ref. zh. Fizika, Abs. 11197 REF SOURCE: Tr. Komis. po spektroskopii. AN SSSR., t. 3, vyz. 1, 1964, 673-678 TOPIC TAGS: absorption band, ir spectrum, complex molecule, molecular physics, molecular interaction ABSTRACT: The frequencies of the valence oscillation groups C=C and =C-H in compounds (CH3)3-X-OH were calculated. The calculated frequencies are compared with the measured frequencies in ir spectra of the compounds (CH3)3-C-C=CH (I), (CH3)3-Si-C=CH (II), and (C2H5)3-SnC=CH (III). It is concluded that in compounds with Si, Ge, Sn, and Po there should be observed an intramolecular interaction with participation of the x-electrons of the C=C bond, using the d-orbit of the X atom. The presence of such an interaction is confirmed experimentally by the fact that an increase is observed in the intensity of the absorption band of the group CmC in II and in III compared with I, and that compounds II and III form stronger complexes ? with an electro-donor solvent: (CHa)3-X-C=CH----Y-R. [Translation of abstract] SUB CODE: 07, 20







Jasting, N.L.

51-6-11/25

AUTHOR:

Gasting, N. L.

TITIE:

Decay of Afterglow of ZnS-Cu and ZnS-Cu, Co Phosphors Near and in the Region of Temperature Quenching. (Zatukhaniye poslesvecheniya fosforov ZnS-Gu i

ŽnS-Cu, Co vblizi i v oblasti temperaturnogo tusheniya.)

PERIODICAL: Optika i Spektroskopiya, 1957, Vol. III, Nr. 6,

pp.624-630. (USSR)

ABSTRACT:

The paper reports experimental investigation of the behaviour of afterglow of ZnS-Cu and ZnS-Cu, Co crystal phosphors near and in the region of temperature The purpose of the work was a comparison

quenching. of the obtained results with existing theories, and the establishment of a fundamental law of decay of afterglow. Afterglow was studied under the conditions

of steady-state strong, steady-state weak and momentary excitation at 365 mm and at various temper-

A Pulfrich photometer was used. measurements were made on one sample to exclude the effect of secondary factors. The phosphor was a thin layer of about 0.003 g/cm². Measurements were begun 0.7 sec after the excitation had ceased.

Card 1/5

51-6-11/25 Decay of Afterglow of ZnS-Cu and ZnS-Cu, Co Phosphors Near and in the Region of Temperature Quenching.

curves were constructed in double-logarithmic (ln I, ln t) and logarithmic (ln I, t) coordinates, where I = the intensity of afterglow, t = duration of decay. Results were obtained for ZnS-Cu phosphor with 10⁻⁴ g/g of Cu. Temperature quenching was studied between 300 and 600°K. The usual quenching curve was obtained: a small rise of intensity (at 290-410°K), constant intensity (at 410-440°K) and a sharp fall (at 440-600°K). The region of constant values of intensity is called the region "near quenching", and the 440-600°K region is called the "quenching region". The following measurements were made: (A) At steady-state weak excitation (Fig.1), when a series of hyperbolae was obtained. (B) At steady-state strong excitation (about 50 times stronger than weak excitation) - see Fig.2. (C) At momentary (0.01 sec) excitation (Fig.3). For the ZnS-Cu, Co phosphor with 10-5 g/g of Cu and 10-5 g/g of Co the curve of

Card 2/5

51-6-11/25 Decay of Afterglow of ZnS-Cu and ZnS-Cu, Co Phosphors Near and in the Region of Temperature Quenching.

temperature quenching was of special form, first established by Saychenko (Ref.2). This quenching curve had a region of quenching, called region I, at 100-290°K, followed by a region of increased intensity (from room temperature to 420-440°K) which is called region II, and a region of high temperature quenching (440-600 K), called region III. For the regions I and III afterglow was studied under steady-state strong, steady-state weak and momentary (0.2 sec) excitations. For the region II only steady-state strong excitation The results are given in Figs. 4 and 5. was used. From the results obtained the author concludes that: (1) With change of intensity and duration of excitation, different laws of decay of after-effect are obtained for one sample in the same region of temperatures. (2) From the curves of afterglow decay the depth of localization levels which cause afterglow was deter- $\mathcal{E} = 0.64 \text{ eV}, \text{ for ZnS-Cu,Co}$ mined: for ZnS-Cu = 0.36 eV for region I and & = 1.57 eVfor region III. (3) Two different values of the activation energy were found: one for the quenching

Card 3/5

51-6-11/25 Decay of Afterglow of ZnS-Cu and ZnS-Cu, Co Phosphors Near and in the Region of Temperature Quenching.

and another for the region near quenching. (4) In ZnS-Cu afterglow is due to localization levels of the same depth for the two regions: near, and in the quenching region. In ZnS-Cu, Co in the low-temperature region I shallow levels (0.36 eV) are effective and in the high-temperature region III deep (1.57 eV) levels are active. (5) In both phosphors afterglow follows the laws of the theory of Adirovich as developed by F.I. Vergunas, with temperature quenching of bimolecular type taken into account. (6) Transition of the hyperbolic law of decay of afterglow into the exponential law in the quenching region is due to a decrease in the number of repeated trappings. (7) Neither the exponential nor the hyperbola of II order represent fundamental decay laws, but are simply special cases of the Adirovich decay law supplemented by inclusion of quenching. There are 5 figures, 1 table and 7 references, of which 5 are Russian and 2 English.

Card 4/5

Decay of Afterglow of ZnS-Cu and ZnS-Cu, Co Phosphors Hear and in the Region of Temperature Quenching.

SUBMITTED: February 11, 1957.

AVAILABLE: Library of Congress.

Card 5/5

Castino Vih.

SUBJECT:

USSR/Luminescence

48-4-11/48

AUTHOR:

Gasting N.L.

TITLE:

Decay of Afterglow in ZnS-Cu and ZnS-Cu, Co Phosphors near and in the Region of temperature Quenching (Zatukhaniye poslesve-cheniya ZnS-Cu-i ZnS-Cu, Co-fosforov vblizi i v oblasti temperaturnogo gasheniya)

PERIODICAL:

Izvestiya Akademii Nauk SSSR, Seriya Fizicheskaya, 1957, Vol 21, #4. pp 508-509 (USSR)

ABSTRACT:

Detailed experimental investigations of the afterglow in ZnS-Cuand ZnS-Cu, Co-phosphors near and in the region of temperature quenching were carried out, and temperature quenching of these phosphors was measured.

The range of temperatures used for quenching was from 300 to 700°K for ZnS-Cu-Phosphors and from 100 to 600°K for ZnS-Cu,

Co-phosphors.

Experimental results yield for one and the same phosphor sample all main forms of the afterglow decay law: exponential, hyperbola of the 2nd order and fractional hyperbola, in the same

Card 1/2

temperature range.

TITLE:

48-4-11/48
Decay of Afterglow in ZnS-Cu and ZnS-Cu, Co Phosphors near and in the Region of temperature Quenching (Zatukhaniye poslesve-cheniya ZnS-Cu- i ZnS-Cu, Co-fosforov vblizi i v oblasti temperaturnogo gasheniya)

The results obtained agree well with the theoretical Adirovich law which was improved by F. Vergunas. The Adirovich-Vergunas law, approximated by a fractional hyperbola in the general case, includes exponential and second-order-hyperbola laws as particular cases.

No references are cited.

INSTITUTION: Tomsk State University

PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress.

Card 2/2

S/139/62/000/006/027/032 E073/E535

AUTHORS: Gasting, N.L. and Suvorova, L.A.

TITLE: On the flare up of luminescence of Zns-Cu phosphors

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Fizika,

no.6, 1962, 168-169

Card 1/2

TEXT: The luminescence flare up was studied for ZnS-Cu phosphors (Cu-10⁻⁴ g/g, calcining temperature 1100° C, flux NaCl) in the temperature extinction range, the beginning of which was at 415° K; activation energy U = 0.67 eV. The maximum possible intensity of the excitation light was used. Three localization levels (0.12, 0.16 and 0.28 eV) were detected and, therefore, it was possible to compare the results obtained with published ones based on a completely different method of determining the energy depths of the localization levels. These results confirm earlier results of the authors that for the luminescence flare up of ZnS-Cu phosphors the following relation is valid: I = I (1-e⁻¹), where I - steady state luminescence intensity, I - density at the given instant of time t, p = p exp-E/kT, E - depth of the localization levels. p expresses the probability of thermal

On the flare up of luminescence ... S/139/62/000/006/027/032 E073/E535

release of localized electrons. There are 2 figures.

ASSOCIATION: Novosibirskiy institut inzhenerov zheleznodorozhnogo

transporta (Novosibirsk Institute of Railway

Transportation Engineers)

SUBMITTED: November 17, 1961

Card 2/2

GASTO, A.

UESR/Human and Animal Physiology - Nervous System.

V-12

Abs Jour

: Ref Zhur - Biol., No 1, 1958, 4459

Author

A. Gasto, A. Yus, F. Morrel, V. Storm-Van-Leuven, B. Bekkering, A. Kamp, J. Verre

Inst

Title

: Electroencephalographic Pattern of the Formation of

Conditioned Reflexes in Man.

Orig Pub

: Zhurnal vyssh. nervn. deyatel'nosti, 1957, 7, No 1, 25-

Abstract

: No abstract.

Card 1/1

GASTO, A. * -12 USSA/hama and mainal knysic to, y - hervous of section. : Ref Zhur - Biol., No 1 , 1958, 4460 Abs Jour : A. Insto, A. Rozhe, S. Jonzhiye, A. Pezhi Auctor Inst : Study of Electroencephalographic Equivalents.in the Title Processes of Central Excitation and Central Inhibition during the Development of Conditioned Reflexes. Zhrunal vyssh. nerv. deyatel'nosti, 1957, 7, No 2, 185-Orig Pub : No abstract. Abstract Card 1/1

GASTOL B. 2 Zakladu Higieny U. J., Krakow. Przyczyne' do gywienia dzieci szkol no: wstechnych wojewodztwa krakowskiego w roku 1947. Czese II A second contribution to the nutrition of school-children in the elementary schools in the province of Cracow Przeglad Lekarski, Cracow 1949. 5/11(358-365) Tables 5

So: Medical Microbiology, Section IV, Vol 3, No 1-6

GASTOL, B.; ANSELM, O.; DIAZHINVSKA, K.; WANIEWSKA, D.; Gorczynska, K.

Mutrition of rural population in the Mischow and Mysleniec regions.

Przegl. lek., Krakow 10 no.61173-178 1954.

1. Z Zakladu Higieny Akademii Nedyoznej w Krakowie. Kierownik: Doc.
dr B.Gastol.

(MUTRITION.
in Poland, rural population)

(RURAL COMDITIONS,
nutrition of rural population in Poland)

GASTOL, Blazej; ANSELM, O.

Nutritional state of the rural populations of the Mischow and Hysleniec counties. Przegl. lek., Krakow 10 no.9:255-258 1954.

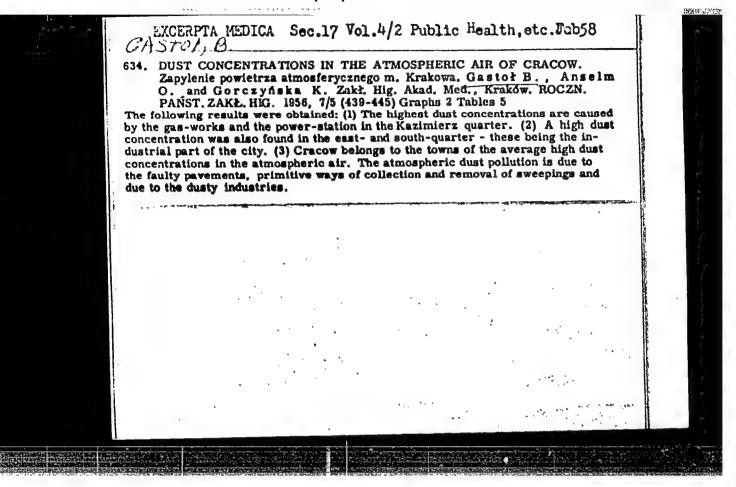
1. Z Eakladu Higieny Akademii Medycznej w Krakowie. Kierownik: Doc. dr B Gastol.

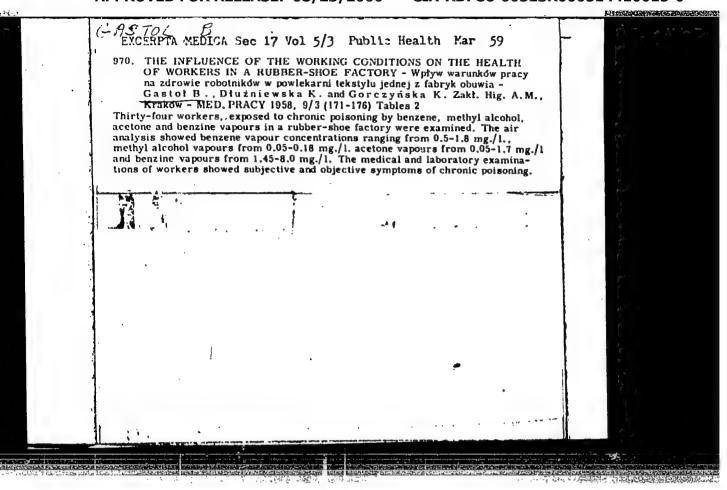
(INTERTION.

in Poland, of rural population)

(KURAL COMBITIONS.

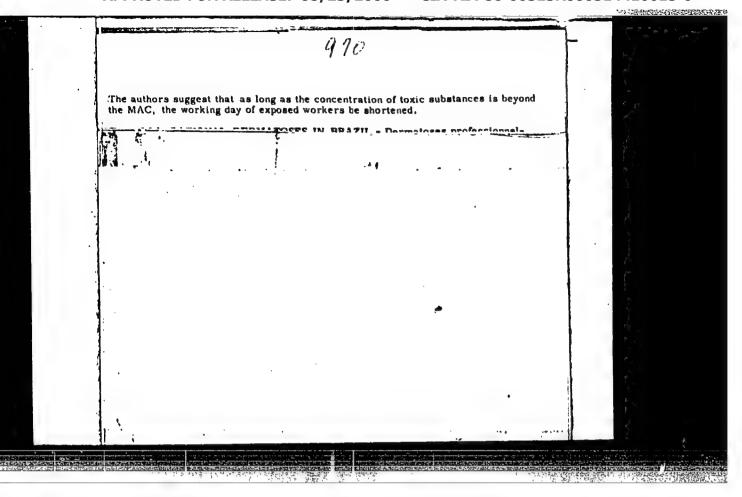
nutrition (? rural population in Poland)





"APPROVED FOR RELEASE: 08/23/2000

CIA-RDP86-00513R000514410015-0



GASTOL, Blazej.

Relation of iodine to calcium and chemical indices of water

pollution as related to endemic goiter. Postepy hig.med.dosw. 14 no.4:413-420 *60.

1. Z Zakladu Higieny A.M. w Krakowie.
(WATER POLLUTION)
(IODINE chem)
(CALCIUM chem)
(GOITER etiol)

\$/169/62/000/002/048/072 D228/D301

AUTHOR: GastoY. B.

Atmospheric pollution over the territory of Nowel Huty TITLE:

Referativnyy zhurnal, Geofizika, no. 2, 1962, 60, abstract 28453 (Roczn. Panstw. zakł. hig., 12, no. 1. PERIODICAL:

1961, 73-78)

TEXT: Investigations of the atmosphere's pollution were fulfilled in 1958-1959 at 10 points of Nowa Huta. The research program included the determination of: a) The amount of dust settling out of the air upon a horizontal surface, b) the quantity of dust in 1 m of air, c) the amount and size of the dust particles, and d) the concentration of sulfur dioxide in 1 m³ of air. The results of the investigations are briefly stated and discussed. An estimate is given for the degree of pollution of separate points. / Abstracter's note: Complete translation. 7

Card 1/1

GASTOL, Blazej

Studies on the etiopathogenesis of endemic goiter in the Newosad District. Postepy hig. med. dosws 16 no.1:167-172 162,

1. Z Zakladu Higieny AM w Krakowie Kierownik: doc. dr B. Gastol. (GOITER etiol)

CIA-RDP86-00513R000514410015-0

GASTOL, B.; KOLTER, K.

Leve' of hemoglobin, number of red cells, and protein in the blood semim as indicators of the state of nutrition of industrial workers. Rocan panetw zaki hig li no. [1270.78] to3.

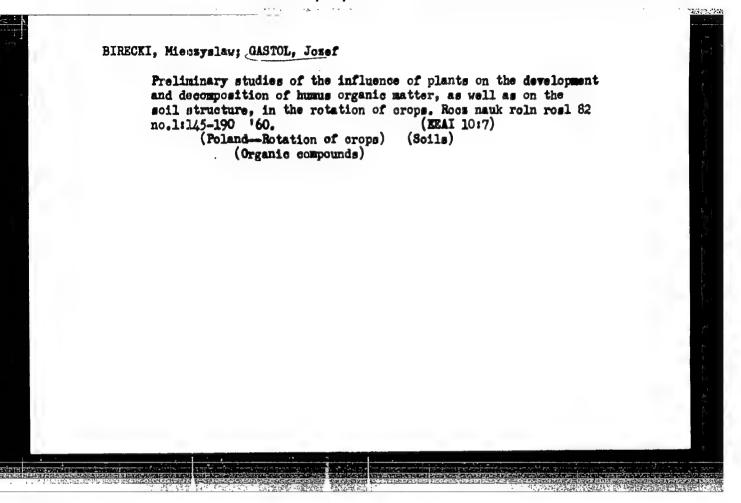
1. Institute of Hygiene, School of Medicine, Krakow, and City Dispensary of Industrial Hygione, heak w.

GASTOL, Hlazej; HOLOWIECKA, Ewa; KOLTEK, Krystyna

Studies on the physical development of children and adolescents in children's homes in the Cracov Region. Folia med. Cracov. 6 no.1:57-81 '64

GASTCL, Blazel; MGIOSIECKA, Ewa; KGITEK, Krystyna

Exeluation of the nutritional status of children and adolescents
An children's homes in the Grecty region schording to the thickness
of the subcutaneous adipose tissue, hemoglobir level, erythrocyte
count, blood protein level and vitamin C level. Folia med. Gracov.
6 no.3:343-353 164.



Card 1/2

UDC: 621.313.042.1.001.8

L 5370-66 EWT(m)/EPF(c)/EWP(v)/EWP(j)/T WW/RM ACC NR: AP5024576 SOURCE CODE: UR/0292/65/000/009/0010/0013 AUTHOR: Alekseyevskiy, V. v. (Corresponding member AN Arm.SSR); Chatinyan. (Candidate of technical sciences); Gastyan, L. K. (Engr.); Alchudzhyan, L. V. ORG: none TITLE: Electrical machinery up to 100 kw with open slots and magnetic wedges SOURCE: Elektrotekhnika, no. 9, 1965, 10-13 TOPIC TAGS: synchronous machine 1/4 ABSTRACT: Heretofore, synchronous generators up to 100 kw capacity have had "soft" coils embedded in semiclosed slots, which has required much labor for building generators. A possibility has been investigated to build these machines with prefabricated thermosetting-plastic-bonded coils placed in open slots and covered with magnetic wedges. Of many combinations tested, a 90%-iron 10%-bakelitepowder press composition is reported as the best material for the magnetic wedges. Three synchronous generators, 6.75, 75, and 125 kva, remodeled for the magnetic-

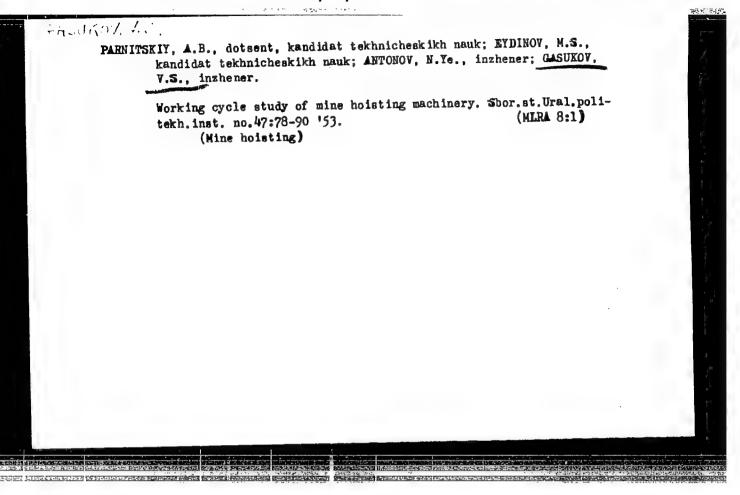
L 5370-66

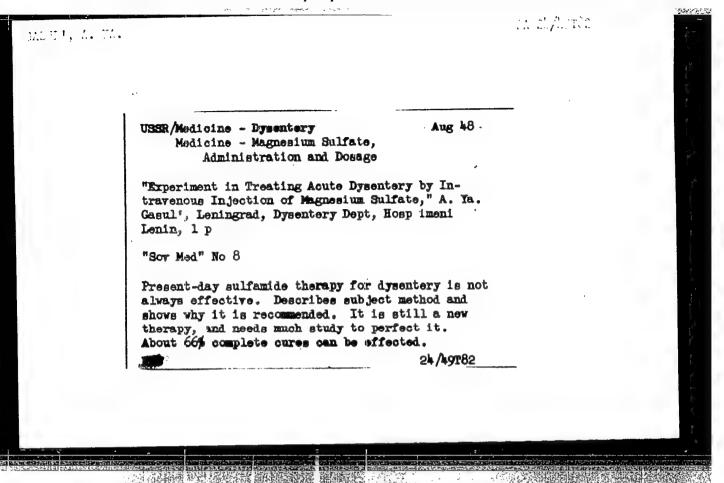
ACC NR: AP5024576

wedge construction, were tested (numerical results tabulated). It is found that:
(1) The use of magnetic wedges, instead of glass-textolite ones, results in a lower weight of copper and a higher efficiency thanks to lower excitation current and lower no-load losses; (2) The reactances x_p, x_s, x_d, x_q increase, when the magnetic wedges are used, within a permissible range; (3) Practical adoption of magnetic wedges would require better press molds and a more suitable (than bakelite) bond material. Orig. art. has: 4 figures and 4 tables.

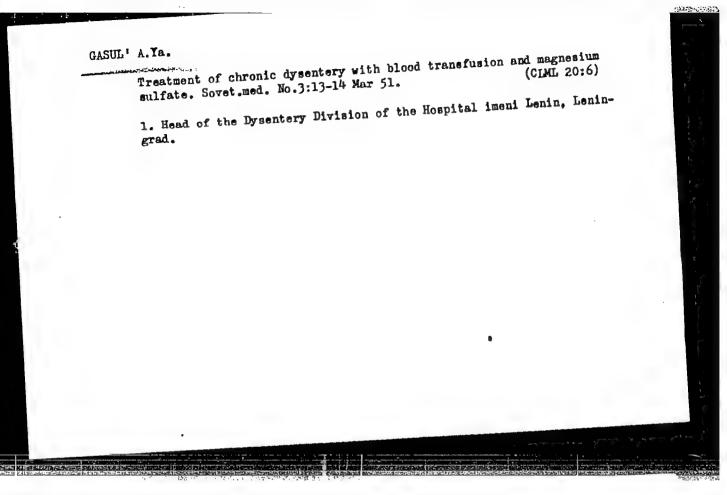
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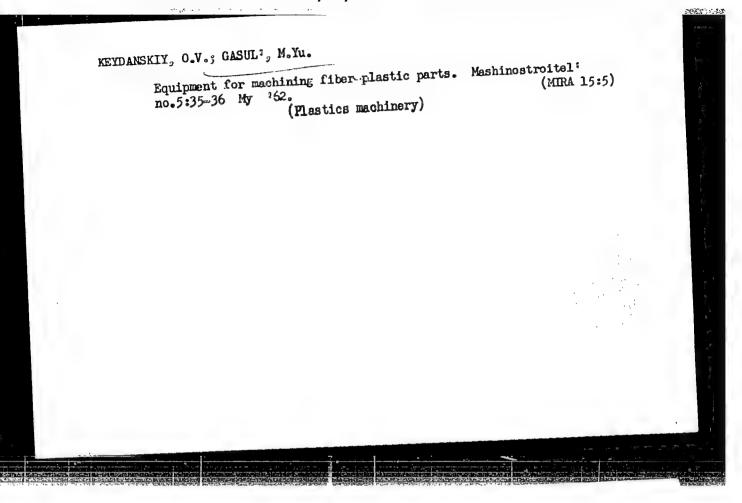




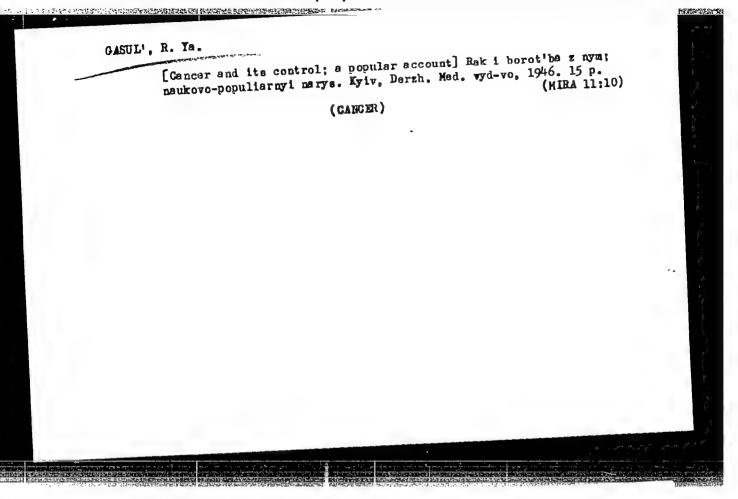
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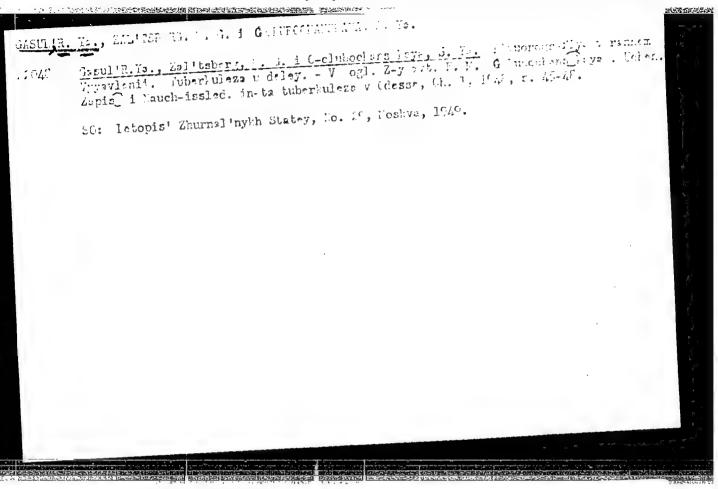


CIA-RDP86-00513R000514410015-0



CIA-RDP86-00513R000514410015-0





CIA-RDP86-00513R000514410015-0

GASUL', R. YA.

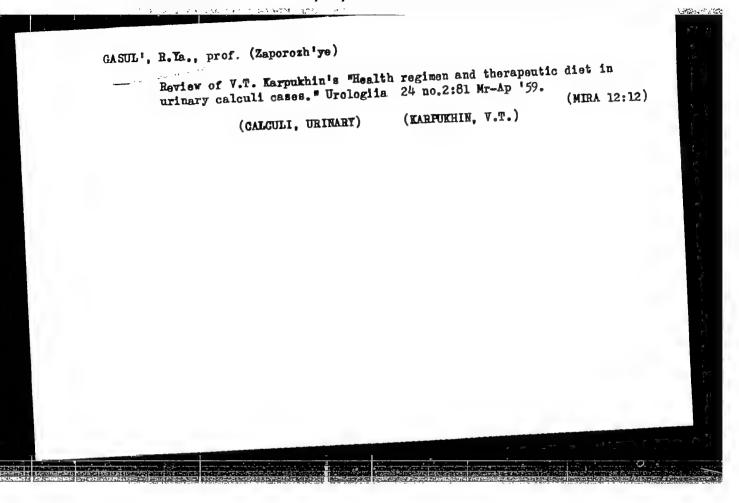
33h68. Rol' Rentgenokimografii V Diferentsial'noy Diagnostike Zabolevaniy Zheludka.

Terapevt. Arkhiv, 19h9, Vyp. 5, c. 32-36

S0: letopis'nykh Statey, Vol. h5, Moskva, 19h9

One of the causes in erroneous interpretation of thoracic roentgeno-grams. Prob.tuberk., Moskva No.1:73 Jan-Feb 51. (GIML 20:6)

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GASUL', R.Ya., prof.; EUDYKO, A.L.

Activity of the Zaporozh'ye Province Society of Roentgenologists and Radiologists for 1957-1958. Vest.rent. i rad. 34 no.4:93-94 Jl-Ag '59. (MIRA 12:12)

1. Predsedatel' Zaporozhskogo oblastnogo nauchnogo obshchestva rentgenologov i radiologov. (ZAPOROZH'YE PROVINCE--RADIOLOGY, MEDICAL)

GASUL', R.Ya., prof.

Activity of the Zaporozh'ye Province Scientific Society of Roentgenologists and Radiologists. Vest. rent. i rad. 36 no.5:77-78 S-0 '61. (MIRA 15:1)

1. Predsedatel' pravleniya Oblastnogo zaperozhskogo nauchnogo obshchestva rentgenologov i radiologov. (ZAPOROZH'YL PROVINCE_RADIOLOGISTS)

GASUL!, R.Ya., prof.; BUDYKO, A.L.

Activity of the Zaporozh'ye Province Scientific Society of Roentgenologists and Radiologists for 1962. Vest. rent. i rad. 38 no.5:71-72 S-0 '63 (MIRA 16:12)

l. Predsedatel' pravleniya Zaporozhskogo oblastnogo nauchnogo obshchestva rentgenologov i radiologov (for Gasul'). Sekretar' Zaporozhslogo oblastnogo nauchnogo obshchestva rentgenologov i radiologov.

GASUL', R.Ya., prof. (Zaporozh'ye)

Review of V.T.Karpukhin's book "Urolithiasis." Urologiia. 29 no.2:
80-81 Mr-Ap '64.

(MIRA 18:7)

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13978 S/238/62/008/006/001/005 D268/D308

27.1230

GASUL, R. Ya.

AUTHOR:

Ligarity Ya. R.

TITLE:

On the possibility of constructing models of thought functions

PERIODICAL:

Fiziolohichnyy zhurnal, v. 8, no. 6, 1962, 790-794

Recent literature is briefly reviewed and the natural limits for modelling thought functions are considered. The possibility has recently been demonstrated of utilizing a process in cybernetic apparatus in which the solution of a problem is achieved by selection from a combination of variants. The extent to which this can increase the possibility of modelling thought processes is examined. The views of U.R. Eshby (in the collection 'Avtomaty', M., 1956) postulating that from the intellectual point at a higher level than their designers, are disputed. It is shown that the self-organizing processes in the machine require specific premises previously introduced into the automaton for their realization. The behavior of the homeostat

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On the possibility ...

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is, in the last resort, dependent on the human assignment. In the Eshby homeostat this assignment is given in the form of a specific selector constructor. Whatever region of thought it may seem possible to model, this will still not imply complete substitution of the activity of the automaton for human thought. A nucleus always remains the exclusive prerogative of man, such as the recognition of the requirements, identification of the problem, and the statement of the aim to which man directs the course of his thought.

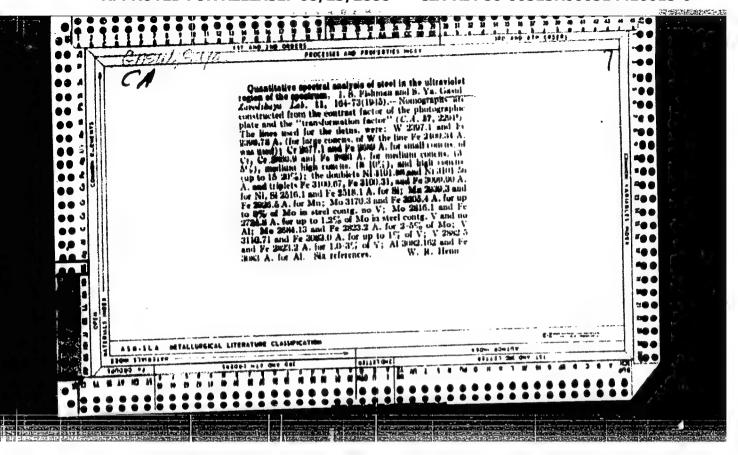
ASSOCIATION:

Zaporiz'ka oblasna psykhiatrychna likarnya (Zaporozh'ye Regional Psychiatric Hospital)

SUBMITTED:

July 18, 1961

Card 2/2



GASUL', Ye. R. (Zaporozh'ye)

Congenital marble disease with mental disorders. Klin. med. no.9: 129-132 '61. (MIRA 15:6)

1. Iz Zaporozhskoy oblastnoy psikhonevrologicheskoy bol'nitsy (glavnyy vrach I. Ya. TSinman)

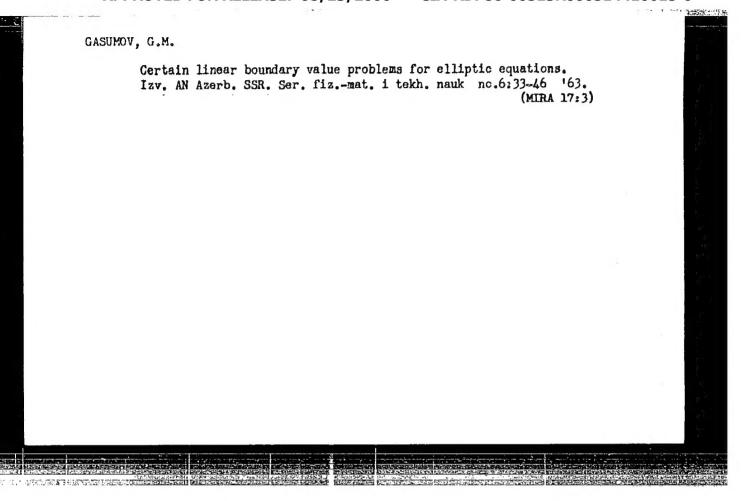
(BONES-DISEASES) (MENTAL ILLNESS)

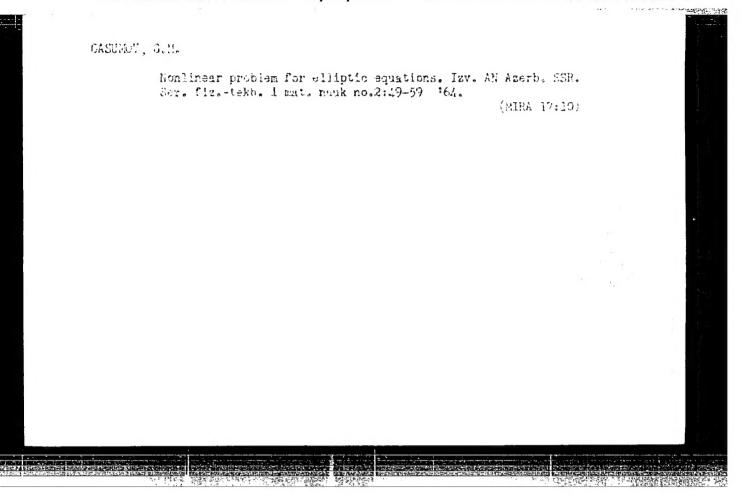
GASUNOVA, G.M.

Diacovering a representative of the genus Citrophyllum Berry in Azerbaijan. Bokl. AN Azerb. SSR 13 no.8:869-871 '57. (MEMA 10:9)

1. Inutitut geologii Azerbaydzhanskoy SSR. Predstavleno akadenikom AM Azerbaydzhanskoy SSR M.M.Aliyevya.

(Shaunyanovek Diatrict--Citrophyllum) (Paleobotany)





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